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APPLICANT : NISSHIN STEEL CO LTD;

INVENTOR : SAKAI TAKEO;

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TITLE : BLACKENING TREATMENT OF AL, AL ALLOY OR STEEL SHEET PLATED WITH SAME

ABSTRACT : PURPOSE: To obtain a black coating film having superior corrosion and heat resistances and undergoing no change in the color tone by treating Al (alloy) or an Al (alloy) plated steel sheet with an aq. soln. contg. prescribed amts. of an alkali metal permanganate, cobalt, fluorine and nitric acid.

CONSTITUTION: An aq. soln. contg. 1-200g/l alkali metal or alkaline earth metal permanganate, 1-100g/l cobalt, 0.1-100g/l fluorine and 0.1-100g/l nitric acid is prepd. and Al (alloy) or an Al (alloy) plated steel sheet is treated with the aq. soln. to form a chromate coating film by 1-300mg/m² (expressed in terms of chromium).

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